

Title (en)

AN APPARATUS AND METHOD FOR CONTROLLING THE CROSS-LINKING OF ELASTOMERS IN A MOULD

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0279081A1] Apparatus for checking or controlling cross-linking in products made of elastomeric material which is the object of the present invention, comprises a mould of a fixed volume provided with at least one pressure sensor able to detect pressure variations in the mould during cross-linking in order to obtain data referring to the progress of the cross-linking in the case of laboratory applications, while, should the apparatus be used in manufacturing, it can provide an automatic control of the duration of the various stages of the manufacturing cycle by means of microprocessor controlled equipment to which such sensors are connected. The operating method according to the present invention comprises measuring the peak pressure reached in the mould, detecting a decrease in its gradient as time passes, subsequently detecting an increase in the gradient and determining the time required to obtain a variation of a pre-established order, this data being used to obtain information on how cross-linking is progressing and for automatically controlling the manufacturing equipment.

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